

<!--StartFragment-->ALIGNMENTS

RESULT 1

US-10-874-242-3

; Sequence 3, Application US/10874242

; Patent No. 7423135

; GENERAL INFORMATION:

; APPLICANT: ESTES, SCOTT

; APPLICANT: ZHANG, WEIQUN

; TITLE OF INVENTION: NOVEL PROMOTERS AND USES THEREOF

; FILE REFERENCE: 07680.0027-00000

; CURRENT APPLICATION NUMBER: US/10/874,242

; CURRENT FILING DATE: 2004-06-24

; PRIOR APPLICATION NUMBER: 60/480,768

; PRIOR FILING DATE: 2003-06-24

; NUMBER OF SEQ ID NOS: 41

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 3

; LENGTH: 2953

; TYPE: DNA

; ORGANISM: Mus musculus

US-10-874-242-3

Query Match 99.2%; Score 1530; DB 8; Length 2953;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1541; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

| | | | |
|----|------|---|------|
| Qy | 1 | GGGAGTGACTCTCTGTCCATTCAATCCAGGCCCCGCGTGTCCCTCAAACAAGAGGCCACA | 60 |
| | | | |
| Db | 1413 | GGGAGTGACTCTCTGTCCATTCAATCCAGGCCCCGCGTGTCCCTCAAACAAGAGGCCACA | 1472 |
| Qy | 61 | CAAATAGGGTCCGGGCCTCGATGCTGACCCTCATCCACTTAAGTGCTCGATATCCACGTG | 120 |
| | | | |
| Db | 1473 | CAAATAGGGTCCGGGCCTCGATGCTGACCCTCATCCACTTAAGTGCTCGATATCCACGTG | 1532 |
| Qy | 121 | ACATCCACACCCAGAGGGTCTTGGGGTGGTTGGGTGACCCCCAGAATGCAGGCCCTAGTAA | 180 |
| | | | |
| Db | 1533 | ACATCCACACCCAGAGGGTCTTGGGGTGGTTGGGTGACCCCCAGAATGCAGGCCCTAGTAA | 1592 |
| Qy | 181 | CCGAGACATTGAATGGGGCAGTGTCCACAAGGGCGGAGGCTATTCCTGTACATCTGGGCC | 240 |
| | | | |
| Db | 1593 | CCGAGACATTGAATGGGGCAGTGTCCACAAGGGCGGAGGCTATTCCTGTACATCTGGGCC | 1652 |
| Qy | 241 | TACGGAGCCAGCACCCATCGCCAAAACCTTCATCCTCTTCCTCAATCTCGCTTTCTCTC | 300 |
| | | | |
| Db | 1653 | TACGGAGCCAGCACCCATCGCCAAAACCTTCATCCTCTTCCTCAATCTCGCTTTCTCTC | 1712 |
| Qy | 301 | TCGCTTTTTTTTTTTTTTCTTCTCTTTTTTTTTTTTTTTTTTCAAAGGAGGGGAGAGGG | 360 |
| | | | |
| Db | 1713 | TCGC-TTTTTTTTTTTTTTCTTCTCTTTTTTTTTTTTTTTTTTCAAAGGAGGGGAGAGGG | 1771 |
| Qy | 361 | GGTAAAAAATGCTGCACTGTGCGGCGAGGCCGGTGAGTGAGCGACGCGGAGCCAATCAG | 420 |
| | | | |
| Db | 1772 | GGTAAAAAATGCTGCACTGTGCGGCGAGGCCGGTGAGTGAGCGACGCGGAGCCAATCAG | 1831 |
| Qy | 421 | CGCCCGCCGTTCCGAAAGTTGCCTTTTATGGCTCGAGTGGCCGCTGTGGCGTCTATAAA | 480 |
| | | | |
| Db | 1832 | CGCCCGCCGTTCCGAAAGTTGCCTTTTATGGCTCGAGTGGCCGCTGTGGCGTCTATAAA | 1891 |
| Qy | 481 | ACCCGGCGGCGCAACGCGCAGCCACTGTCGAGTCGCGTCCACCCGCGAGCACAGCTTCTT | 540 |

| | | | |
|----|------|---|------|
| Db | 1892 | ACCCGGCGGGCGCAACGCGCAGCCACTGTCGAGTCGCGTCCACCCGCGAGCACAGCTTCTT | 1951 |
| Qy | 541 | TGCAGCTCCTTCGTTGCCGGTCCACACCCGCCACCAGGTAAGCAGGGACGCCGGGCCAG | 600 |
| Db | 1952 | TGCAGCTCCTTCGTTGCCGGTCCACACCCGCCACCAGGTAAGCAGGGACGCCGGGCCAG | 2011 |
| Qy | 601 | CGGGCCTTCGCTCTCTCGTGGCTAGTACCTCACTGCAGGGTCCTGAGGATCACTCAGAAC | 660 |
| Db | 2012 | CGGGCCTTCGCTCTCTCGTGGCTAGTACCTCACTGCAGGGTCCTGAGGATCACTCAGAAC | 2071 |
| Qy | 661 | GGACACCATGGGCGGGTGGAGGGTGGTGCCGGGCCGCGGAGCGGACACTGGCACAGCCAA | 720 |
| Db | 2072 | GGACACCATGGGCGGGTGGAGGGTGGTGCCGGGCCGCGGAGCGGACACTGGCACAGCCAA | 2131 |
| Qy | 721 | CTTTACGCCTAGCGTGTAGACTCTTTGCAGCCACATTCCCGCGGTGTAGACACTCGTGGG | 780 |
| Db | 2132 | CTTTACGCCTAGCGTGTAGACTCTTTGCAGCCACATTCCCGCGGTGTAGACACTCGTGGG | 2191 |
| Qy | 781 | CCCGCTCCCGCTCGGTGCGTGGGGCTTGGGGACACACTAGGGTCGCGGTGTGGGCATTG | 840 |
| Db | 2192 | CCCGCTCCCGCTCGGTGCGTGGGGCTTGGGGACACACTAGGGTCGCGGTGTGGGCATTG | 2251 |
| Qy | 841 | ATGAGCCGGTGCGGCTTGCGGGTGTTAAAAGCCGTATTAGGTCCATCTTGAGAGTACACA | 900 |
| Db | 2252 | ATGAGCCGGTGCGGCTTGCGGGTGTTAAAAGCCGTATTAGGTCCATCTTGAGAGTACACA | 2311 |
| Qy | 901 | GTATTGGGAACCAGACGCTACGATCACGCCTCAATGGCCTCTGGGTCTTTGTCCAAACCG | 960 |
| Db | 2312 | GTATTGGGAACCAGACGCTACGATCACGCCTCAATGGCCTCTGGGTCTTTGTCCAAACCG | 2371 |
| Qy | 961 | GTTTGCCTATTTCGGCTTGCCGGGCGGGCGGGCGGGCGGGCGGGCAGGGCCGGCTC | 1020 |
| Db | 2372 | GTTTGCCTATTTCGGCTTGCCGGGCGGGCGGGCGGGCGGGCGGGCAGGGCCGGCTC | 2431 |
| Qy | 1021 | GGCCGGGTGGGGGCTGGGATGCCACTGCGCGTGCGCTCTCTATCACTGGGCATCGAGGCG | 1080 |
| Db | 2432 | GGCCGGGTGGGGGCTGGGATGCCACTGCGCGTGCGCTCTCTATCACTGGGCATCGAGGCG | 2491 |
| Qy | 1081 | CGTGTGCGCTAGGGAGGGAGCTCTTCCTCTCCCCCTCTTCCTAGTTAGCTGCGCGTGCGT | 1140 |
| Db | 2492 | CGTGTGCGCTAGGGAGGGAGCTCTTCCTCTCCCCCTCTTCCTAGTTAGCTGCGCGTGCGT | 2551 |
| Qy | 1141 | ATTGAGGCTGGGAGCGCGGCTGCCCGGGGTTGGGCGAGGGCGGGGCCGTTGTCCGAAGG | 1200 |
| Db | 2552 | ATTGAGGCTGGGAGCGCGGCTGCCCGGGGTTGGGCGAGGGCGGGGCCGTTGTCCGAAGG | 2611 |
| Qy | 1201 | GGCGGGGTACAGTGGCACGGGCGCCTTGTTTGCCTTCCTGCTGGGTGTGGTCGCCTCC | 1260 |
| Db | 2612 | GGCGGGGTACAGTGGCACGGGCGCCTTGTTTGCCTTCCTGCTGGGTGTGGTCGCCTCC | 2671 |
| Qy | 1261 | CGCGCGCGCACAAAGCCGCCCGTCGGCGCAGTGTAGGCGGAGCTTGCGCCCGTTTGGGGAG | 1320 |
| Db | 2672 | CGCGCGCGCACAAAGCCGCCCGTCGGCGCAGTGTAGGCGGAGCTTGCGCCCGTTTGGGGAG | 2731 |
| Qy | 1321 | GGGGCGGAGGTCTGGCTTCCTGCCCTAGGTCCGCCTCCGGGCCAGCGTTTGCCTTTTATG | 1380 |
| Db | 2732 | GGGGCGGAGGTCTGGCTTCCTGCCCTAGGTCCGCCTCCGGGCCAGCGTTTGCCTTTTATG | 2791 |
| Qy | 1381 | GTAATAATGCGGCCGGTCTGCGCTTCCTTTGTCCCTGAGCTTGGGCGCGCGCCCCCTGG | 1440 |
| | | | |

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Db      2792  GTAATAATGCGGCCGGTCTGCGCTTCCTTTGTCCCCTGAGCTTGGGCGCGCGCCCCCTGG  2851
Qy      1441  CGGCTCGAGCCCGCGGCTTGCCGGAAGTGGGCAGGGCGGCAGCGGCTGCTCTTGGCGGCC  1500
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      2852  CGGCTCGAGCCCGCGGCTTGCCGGAAGTGGGCAGGGCGGCAGCGGCTGCTCTTGGCGGCC  2911
Qy      1501  CCGAGGTGACTATAGCCTTCTTTTGTGTCTTGATAGTTCGCC  1542
        ||||||||||||||||||||||||||||||||||||||||
Db      2912  CCGAGGTGACTATAGCCTTCTTTTGTGTCTTGATAGTTCGCC  2953

<!--EndFragment-->

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